

# PRODUCT DATASHEET LED TUBE T8 HF P 600 mm 7.5W 830

LED TUBE T8 HF P | LED tubes for electronic high frequency control gear (ECG), shatterproof



#### Areas of application

- General illumination within ambient temperatures from -20...+45  $^{\circ}\text{C}$
- Illumination of production areas
- Traffic zones and corridors
- Supermarkets and department stores
- Industry

### Product benefits

- No bending thanks to glass tube
- Shatter protection thanks to special PET coating
- Very high resistance to switching loads
- Quick, simple and safe replacement without rewiring
- Energy savings of up to 66 % (compared to T8 fluorescent lamp)
- Also suitable for operation at low temperatures

#### Product features

- LED replacement for classic T8 fluorescent lamps with G13 socket for use in ECG luminaires
- Compatible with many common electronic control gears (see also compatibility list)
- Low flicker according to EU 2019-2020 (SVM  $\leq$  0.4 / PstLM  $\leq$  1)
- Lamp tube made of glass with splinter protection
- For especially uniform illumination
- Mercury-free and RoHS compliant
- Type of protection: IP20





- Lifetime up to 75,000 h

# TECHNICAL DATA

#### Electrical data

Nominal wattage	7.5 W
Construction wattage	7.50 W
Nominal voltage	2540 V
Operating mode	ECG <sup>1)</sup>
Nominal current	330 mA
Type of current	AC
Inrush current	24 A
Operating frequency	3575 kHz
Mains frequency	3575 kHz
Max. lamp number on MCB B10 A	17
Max. lamp number on MCB B16 A	28
Total harmonic distortion	< 15 %
Power factor λ	0.80

<sup>1)</sup> Check ECG compatibility at ledvance.com/compatibility

#### Photometrical data

Luminous flux	1000 lm
Luminous efficacy	133 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Warm White
Color temperature	3000 K
Color rendering index Ra	80
Light color	830
Standard deviation of color matching	≤5 sdcm
Rated LLMF at 6,000 h	0.90
Flickering metric (Pst LM)	1.0
Stroboscope effect metric (SVM)	≤0.4



EPREL data spectral diagram PROF LEDr 3000K

# Light technical data

Beam angle	190 °
Warm-up time (60 %)	< 2.00 s
Starting time	< 0.5 s

# Dimensions & Weight



Overall length	603.00 mm
Length with base excl. base pins/connection	600.00 mm
Diameter	27.80 mm
Product weight	137.00 g

# Temperatures & operating conditions

Ambient temperature range	-20+45 °C <sup>1)</sup>	
Maximum temperature at tc test point	65 °C	
Performance temp. acc. to IEC 62717	45 °C <sup>2)</sup>	

<sup>1)</sup> Temperature surrounding the lamp - for enclosed luminaires: temperature inside of the luminaire

#### Lifespan

Lifespan L70/B50 at 25 °C	75000 h
Lifespan L80/B50 at 25 °C	75000 h
Number of switching cycles	200000

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<sup>2)</sup> Tp rated. Tp point coincides with Tc point - marked on device  $\,$ 

	PRODUCT DATASHEET
	0.70
Lumen maintenance at end of service lifetime	0.70
Rated lamp survival factor at 6,000 h	≥ 0.90
Additional product data	
Base (standard designation)	G13
Mercury content	0.0 mg
Mercury-free	Yes
Product remark  The declared values stated in the data sheet refer to the LED tube on the reference ECG OSRAM QTP-(AA509570755)	
Capabilities	
Dimmable	No
Certificates & Standards	
Energy efficiency class	E 1)
Energy consumption	8.00 kWh/1000h
Type of protection	IP20

# Country-specific categorizations

Photobiological safety group acc. to EN62778

Standards

Order reference

LOGISTICAL DATA	
Temperature range at storage	-20+80 °C

CE

RG0

LEDTUBE T8 HF P

# Energy labelling regulation data acc EU 2019/2015

Lighting technology used	LED
Non-directional or directional	NDLS
Mains or non-mains	NMLS
Light source cap-type (or other electric interface)	G13
Connected light source (CLS)	No
Color-tuneable light source	No
Envelope	No
High luminance light source	No
Anti-glare shield	No

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<sup>1)</sup> Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)

Correlated colour temperature type	SINGLE_VALUE
Claim of equivalent power	No
Length	603.00 mm
Height	27.80 mm
Width	27.80 mm
Chromaticity coordinate x	0.4339
Chromaticity coordinate y	0.4033
R9 Colour rendering index	<b>`</b> 0
Beam angle correspondence	SPHERE_360
Survival factor	<b>`</b> 0.9
Displacement factor	0.8
LED light source replaces a fluorescent light source	No
EPREL ID	1317761
Model number	AC42567

## Safety advice

- Not suitable for operation with low-loss and conventional control gears and main voltage.
- Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.
- The operating temperature range of LED tube is restricted. In case of doubt regarding suitability of the application please measure Tc temperature on the product prior to installation.
- All electrical connections must be made by a qualified person.
- Not suitable for emergency lighting.

#### **DOWNLOAD DATA**

	Documents and certificates	Document name
POF	User instruction / safety instructions	LEDTUBE T8 HF Ledvance
POF	Addon technical information	LED TUBE T8 UNIVERSAL T8 HF T5 HF Gen 11 ballast compatibility 2023
PDF	Addon technical information	LED TUBE T8 T5 HF ballast compatibility 2025
PDF	Extended installation guide	Installation instructions LED TUBE T8, T5 und DULUX LED 2024 10 EN
POF	Legal information	Informationstext 18 Abs 4 ElektroG
POF	Declarations of conformity	LED TUBES T8 HF/UN

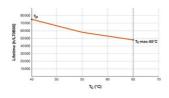
	Documents and certificates	Document name
PDF	Declarations of conformity UKCA	LED TUBES T8 HF/UN UKCA
PDF	ECG compatibility list	LED TUBE T8 UNIVERSAL T8 HF T5 HF Gen 11 ballast compatibility 2023
	Photometric and lighting design files	Document name
	IES file (IES)	LEDTUBE T8 HF P 600 7.5W 830 LEDV
	LDT file (Eulumdat)	LEDTUBE T8 HF P 600 7.5W 830 LEDV
	UGR file (UGR table)	LEDTUBE T8 HF P 600 7.5W 830 LEDV
	Light distribution curve type polar	LEDTUBE T8 HF P 600 7.5W 830 LEDV
	Spectral power distribution	EPREL data spectral diagram PROF LEDr 3000K
	Tender texts	Document name
	Tender documents	LED TUBE T8 HF P 600 mm 7.5W 830-EN

#### LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854026058	Sleeve 1	610 mm x 31 mm x 31 mm	155.00 g	0.59 dm <sup>3</sup>
4099854026065	Shipping box 10	662 mm x 210 mm x 115 mm	1910.00 g	15.99 dm <sup>3</sup>

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

# ADDITIONAL CATALOG INFORMATION



# References / Links

- F	r current	information	see v	vww.led\	vance.	com/ledtube
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# Legal advice

- When used to replace a T8 fluorescent lamp the total energy efficiency and light distribution depends on the design of the lighting system.

# **DISCLAIMER**

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.